7. The composition of claim 1, wherein said water is distilled water.

8. The composition of claim 1, wherein said food grade acidulent is selected from the group consisting of phosphoric acid, citric acid, malic acid and acetic acid.

9. The composition of claim 1, wherein said food grade acidulent is distilled vinegar.

10. The composition of claim 1, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 5 ppm.

11. The composition of claim 1, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.

12. The composition of claim 1, wherein a dissolved oxygen content of said composition is less than about 1 ppm.

13. A method for reducing odors emanating from animal discharges, comprising the steps of applying a dosage of said composition of claim 1 to food rations in an amount effective to reduce odors and feeding said food rations to an animal.

14. The method of claim 13, wherein said dosage is applied using application means delivering about 0.05 ounces per application (0.14×10^{-5} m^3 per application).

15. The method of claim 13, wherein said dosage is about one ounce per week (2.96×10^{-5} m^3 per week).

16. A process for manufacturing a composition for reducing odors emanating from animal discharges, said process consisting essentially of the steps of:

(a) providing water with a calcium carbonate content less than about 1000 ppm;

(b) adding chlorine dioxide to said water in an amount effective to reduce odors emanating from animal discharges; and

(c) adding an acidulent to said water in sufficient quantity to adjust the pH of the composition to a value greater than about 7.

17. The process of claim 16, wherein said water has a calcium carbonate content less than about 500 ppm.

18. The process of claim 16, wherein said water has a calcium carbonate content less than about 300 ppm.

19. The process of claim 16, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value greater than about 9.

20. The process of claim 16, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value in a range of about 9.2 to 9.4.

21. The process of claim 16, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 5 ppm.

22. The process of claim 16, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.

23. The process of claim 16, wherein said source of chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 1 ppm.

24. The process of claim 16, wherein said water is de-ionized water filtered by reverse osmosis.

25. The process of claim 16, wherein said water is distilled water.

26. The process of claim 16, wherein said food grade acidulent is selected from the group consisting of phosphoric acid, citric acid, malic acid, and acetic acid.

27. The process of claim 16, wherein said food grade acidulent is distilled vinegar.

28. A product for reducing odors emanating from animal discharges, comprising: a composition consisting essentially of:

(a) water with a calcium carbonate content less than about 1000 ppm;

(b) chlorine dioxide in an amount effective to reduce odors emanating from animal discharges; and

(c) an acidulent in sufficient quantity to adjust the pH of the composition to greater than about 7;

disposed in a container which comprises a material that blocks the transmission of ultra-violet radiation.

29. The product of claim 28, wherein said water has a calcium carbonate content less than about 500 ppm.

30. The product of claim 28, wherein said water has a calcium carbonate content less than about 300 ppm.

31. The product of claim 28, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value greater than about 9.

32. The product of claim 28, wherein said food grade acidulent is present in an amount sufficient to adjust the pH of the composition to a value in a range of about 9.2 to 9.4.

33. The product of claim 28, wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 5 ppm.

34. The product of claim 28, wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 2 ppm.

35. The product of claim 28, wherein said chlorine dioxide and said food grade acidulent are added to said water, such that a dissolved oxygen content of said composition is less than about 1 ppm.

36. The product of claim 28, further comprising application means for applying measured amounts of said composition to animal food rations.

37. The product of claim 36, wherein said application means is a spray applicator.

38. The product of claim 37, wherein said spray applicator applies a dosage of about 0.05 ounces per spray (0.14×10^{-5} m^3 per spray).

39. A method for reducing odors emanating from animal discharges, comprising the steps of applying a dosage of said composition of claim 1 to an animal in an amount effective to reduce odors emanating from animal discharges.

40. The method of claim 39, wherein said dosage is applied topically.

41. The method of claim 39, wherein said dosage is applied by swabbing said composition onto said animal.

42. The method of claim 39, wherein said dosage is applied to an animal's skin at an opening from which glandular excretions discharge.

43. The method of claim 39, wherein said dosage is applied in the genital region of an animal in heat.

44. A animal food product for reducing odors emanating from animal discharges, comprising said composition of claim 1 applied to animal food in an amount effective to reduce odors.

45. A product for reducing odors emanating from animal discharges, comprising a topical application including said composition of claim 1 in an amount effective to reduce odors.

46. The product of claim 45, wherein said topical application is an ointment.

47. The product of claim 45, wherein said topical application is a suppository.

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